

**Commonwealth of Kentucky  
Environmental and Public Protection Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601  
(502) 573-3382**

**AIR QUALITY PERMIT  
Issued under 401 KAR 52:040**

**Permittee Name:** Burke-Parsons-Bowlby Corp.  
**Mailing Address:** P. O. Box 609

**Source Name:** Same as above  
**Mailing Address:** Same as above


**Source Location:** 164 N. Main Street, Stanton, KY 40380

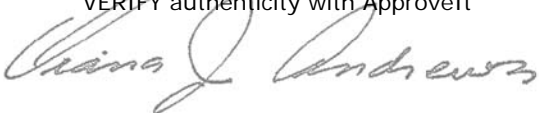
**Permit Number:** S-05-093 (Revision 1)  
**Source A. I. #:** 3783  
**Activity #:** APE20050002  
**Review Type:** State-Origin Permit, Operating  
**Source ID #:** 21-197-00008

**Regional Office:** Frankfort Regional Office  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758  
(859) 292-6411

**County:** Powell

**Application**  
**Complete Date:** November 7, 2005  
**Issuance Date:** June 1, 2005  
**Revision Date:** January 20, 2006  
**Expiration Date:** June 1, 2015

E-Signed by Diana Andrews  
VERIFY authenticity with ApproveIt 



**John S. Lyons, Director  
Division for Air Quality**

**SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and received a permit for the planned activity from the Division, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

<b>Rev #</b>	<b>Permit type</b>	<b>Log #</b>	<b>Complete Date</b>	<b>Issuance Date</b>	<b>Summary of Action</b>
<b>----</b>	<b>Initial Issuance</b>	<b>APE2001 0001</b>	<b>4/26/05</b>	<b>6/1/05</b>	
<b>1</b>	<b>Revision</b>	<b>APE2005 0002</b>	<b>10/7/05</b>	<b>1/20/06</b>	<b>Applicable regulation changed to 59:015 and Subpart Dc limit to Wood fired boiler.</b>

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

**EP # 01      Natural Gas Boiler**

### **Description:**

Rated Capacity:      8.63 mmBtu/hr

Construction Commenced: June 1978

### **APPLICABLE REGULATIONS:**

401 KAR 59:015 New Indirect Heat Exchangers

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a. Pursuant to 401 KAR 59:015, Section 4(1), particulate emissions shall not exceed 0.56 lb/mmBtu.
- b. Pursuant to 401 KAR 59:015, Section 4(2), visible emissions shall not exceed 20% opacity based on a six-minute-average.
- c. Pursuant to 401 KAR 59:015, Section 5(1), sulfur dioxide emissions shall not exceed 3.0 lbs/mmBtu based on a three-hour average.

### **Compliance Demonstration Method:**

The unit is considered to be in compliance with the allowable SO<sub>2</sub>, PM, and opacity limitations while burning natural gas.

#### **3. Testing Requirements:**

Pursuant to 401 KAR 59:005 Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the division.

#### **4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- a. The total monthly fuel usage rate (cubic feet/month).
- b. The total monthly hours of operation (hours operated per month) of the boiler.
- c. The sulfur content of natural gas burned. The sulfur content maybe determined by fuel sampling and analysis or by fuel supplier certification.

**5. Specific Recordkeeping Requirements:**

See Specific Monitoring Requirements above.

**6. Specific Reporting Requirements:**

See General Conditions Section C(3).

**7. Specific Control Equipment Operating Conditions:**

None

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**EP# 04        Three 10,000 gallon Creosote Storage Tanks**

**Description:**

Rated Capacity: 10,000 gal for each tank

Construction commenced: January 1980

**APPLICABLE REGULATIONS:**

401 KAR 63:020 Potentially Hazardous Matter or Toxic Substances

**1. Operating Limitations:**

Pursuant to 401 KAR 63:020 Section 3, persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. Non owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals, and plants/ Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet.

**2. Emission Limitations:**

None

**3. Testing Requirements:**

None

**4. Specific Monitoring Requirements:**

None

**5. Specific Recordkeeping Requirements:**

None

**6. Specific Reporting Requirements:**

None

**7. Specific Control Equipment Operating Conditions:**

None

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **EP# 6            Sawing Operation**

#### **Description:**

Rated Capacity: 24.5 tons crossties per hour (200 crossties/hr)

Construction commenced: January 1980

#### **APPLICABLE REGULATIONS:**

401 KAR 59:010 New Process Operations.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a. Pursuant to 401 KAR 59:010 Section 3 (1), visible emissions from stacks or vents exiting the facility building shall not equal or exceed 20 percent opacity.

Compliance demonstration: The permittee shall demonstrate compliance through monitoring and maintenance of the records as specified in point

#### **4. Specific Monitoring Requirements.**

- b. Pursuant to KAR 59:010 Section 3 (2), particulate emissions for the emission point as measured by Reference Method 5, Appendix A, shall not exceed 2.34 lbs/hour.

Compliance demonstration: The process weight shall be determined in hourly tons by averaging the monthly process weight rate over monthly hours of operation. Particulate emissions shall be calculated by the following equation:

$$E = P \cdot EF$$

Where E is particulate emissions in lbs/hr, P is averaged process weight in tons/hr and EF is the KYEIS particulate emission factor in lbs/ton of process weight.

#### **3. Testing Requirements:**

None

#### **4. Specific Monitoring Requirements:**

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for any necessary repairs.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- b. The permittee shall monitor the wood usage rate and hours of operation on a monthly basis for the emission unit.

**5. Specific Recordkeeping Requirements:**

The permittee shall retain records of the following when the unit is in operation:

- a. Records of material processed and monthly hours of operation;
- b. Weekly qualitative opacity readings from the stack or vent determined by Reference Method 9, if any were taken; and
- c. Repairs that were made due to any opacity reading that exceeded the standard.

**6. Specific Reporting Requirements:**

See General Conditions Section C(3).

**7. Specific Control Equipment Operating Conditions:**

None

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**EP # 11 (8) Wood Fired Boiler**

**Description:**

Rated Capacity: 10 mmBtu/hr  
Construction Commenced: July 1996  
Control Device: Single Cyclone (80% control)

**APPLICABLE REGULATIONS:**

401 KAR 59:015 New Indirect Heat Exchangers  
40 CFR 60 Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

**3. Operating Limitations:**

None

**4. Emission Limitations:**

- a. Pursuant to 401 KAR 59:015, Section 4(1), particulate emissions shall not exceed 0.56 lb/mmBtu.
- b. Pursuant to 401 KAR 59:015, Section 4(2), visible emissions shall not exceed 20% opacity based on a six-minute-average.
- c. Pursuant to 401 KAR 59:015, Section 5(1), sulfur dioxide emissions shall not exceed 5.0 lbs/mmBtu based on a three-hour average.

**Compliance Demonstration Method:**

**Particulate Matter and Sulfur Dioxide Emissions (in lb/mmBTU):**

Emissions = [(Total Monthly wood consumption rate x Emission factor listed in Kentucky Emissions Inventory) / (Total Hours of operation per month x Total Hourly Rated Capacity)]

See the monitoring requirements for opacity compliance.

**3. Testing Requirements:**

Pursuant to 401 KAR 59:005 Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the Reference Methods specified in 401 KAR 50:015 shall be conducted as required by the division.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**4. Specific Monitoring Requirements:**

The permittee shall monitor and maintain records of the following information:

- a. The total daily wood usage rate (ton/day) (40 CFR 60 Subpart Dc).
- b. The total monthly hours of operation (hours operated per month) of the boiler.
- c. The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If any visible emissions are seen, then opacity must be determined by U.S. EPA Reference Method 9 and initiate an inspection of the control equipment for any necessary repairs. The visual observations and/or method 9 test must be done while the equipment is in operation.
- d. The Sulfur Dioxide emissions are assumed to be in compliance while burning wood.

**5. Specific Recordkeeping Requirements:**

See Specific Monitoring Requirements above.

**6. Specific Reporting Requirements:**

See General Conditions Section C(3).

**7. Specific Control Equipment Operating Conditions:**

None

## SECTION C - GENERAL CONDITIONS

### A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]
3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit  
[Material incorporated by reference by 401 KAR 52:040, Section 1a, 11].
4. Pursuant to materials incorporated by reference by 401 KAR 52:040, this permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Material incorporated by reference by 401 KAR 52:040, Section 1a, 4,5].
5. This permit does not convey property rights or exclusive privileges [Material incorporated by reference by 401 KAR 52:040, Section 1a, 8].
6. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].
7. This permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in 401 KAR 50:038, Air emissions fee. The permittee shall submit an annual emissions certification pursuant to 401 KAR 52:040, Section 20
8. All previously issued permits to this source at this location are hereby null and void.

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

### **B. Recordkeeping Requirements**

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f)].
2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

### **C. Reporting Requirements**

1. a. In accordance with the provisions of 401 KAR 50:055, Section 1, the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
- b. The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition 1. a. above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Material incorporated by reference by 401 KAR 52:040, Section 5, 3].
2. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the permit [Material incorporated by reference by 401 KAR 52:040, Section 1a, 6].
3. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

The summary reports are due January 30th and July 30th of each year. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

### **D. Inspections**

1. In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation.
  - b. To access and copy any records required by the permit.
  - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
  - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

### **E. Emergencies/Enforcement Provisions**

1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Material incorporated by reference by 401 KAR 52:040, Section 1a, 3].
2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - a. An emergency occurred and the permittee can identify the cause of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - b. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement [401 KAR 52:040, Section 22(1)].

## SECTION C - GENERAL CONDITIONS (CONTINUED)

4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040, Section 22(2)].

### F. Compliance

1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
  - a. Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.
  - b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and nonroutine maintenance performed on each control device.
  - c. A log of the monthly raw material consumption and monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division [401 KAR 50:055, Section 2].
2. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
  - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality  
Frankfort Regional Office  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758

Division for Air Quality  
Central Files  
803 Schenkel Lane  
Frankfort, KY 40601-1403

**SECTION C - GENERAL CONDITIONS (CONTINUED)**

3. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
  - (a) Applicable requirements that are included and specifically identified in this permit; or
  - (b) Non-applicable requirements expressly identified in this permit [401 KAR 52:040, Section 11].

**SECTION D - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. While these activities are designated as insignificant the permittee shall comply with the applicable regulation and any level of periodic monitoring specified below.

Description	Generally Applicable Regulation
1. 2000 gallon Diesel Tank (EP 03)	None
2. 3 – 75 Creosote Autoclaves (EPs 08,09,10)	401 KAR 63:020